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LAMP: the LANSCE modernization project

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The Los Alamos Neutron Science Center (LANSCE) is one of the oldest operating high-power accelerators in the United States, having recently celebrated its 50th anniversary of operation. LANSCE is comprised of an 800-MeV linac capable of concurrently accelerating both H⁺ and H⁻ ions, and can presently provide beam to six separate user stations.

The proposed LANSCE Modernization Project (LAMP) is intended to revitalize and enhance the performance of two key areas in the LANSCE accelerator complex: the front end of the accelerator, from the sources to the end of the drift tube linac at 100 MeV; and the 800-MeV proton storage ring, or PSR. This paper provides a high-level overview of the proposed LAMP scope of work, timeline and performance goals.

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